

## SEQUENCE LISTINGS

<110> National Cancer Center

<120> Neutralizable epitope of HGF and neutralizing antibody binding to the same

<130> Q94845

<150> KR 10-2003-0079482

<151> 2003-11-11

<150> PCT/KR2004/002888

<151> 2004-11-09

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<211> 42

<212> DNA

<213> Artificial Sequence

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<212> DNA

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<223> VH 5' sense primer RHyVH3

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<210> 12

<211> 44

<212> DNA

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<223> VH 5' sense primer RHyVH4

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<223> VH 3' reverse primer RHylgGCH1-B

<400> 13  
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<220>  
<223> Sense primer HKC-F for amplification of the human Ckappa region and the peIB leader sequence from a cloned human Fab

<400> 14  
cgaactgtgg ctgcaccatc tgtc 24

<210> 15  
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ggccatggct gggtgggcag c 21

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<220>  
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<400> 16  
gcctccacca agggcccatc ggtc 24

<210> 17  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Reverse primer dpseq for amplification of the human CH1 Chain from a cloned human Fab

<400> 17  
agaagcgtag tccggaacgt c 21

<210> 18  
<211> 41  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Sense primer RSC-F for PCR assembly of rabbit VL sequences with the human Ckappa PCR Product

<400> 18  
 gaggaggagg aggaggaggc ggggcccagg cggccgagct c 41

<210> 19  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Sense primer LeadVH for PCR assembly of rabbit VH sequences with the human CH1 PCR product

<400> 19  
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<210> 20  
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 <212> DNA  
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<220>  
 <223> Reverse primer dp-EX for PCR assembly of chimeric light-chain sequences with chimeric heavy-chain (Fd) sequences

<400> 20  
 gaggaggagg aggaggagag aagcgtagtc cggaacgtc 39

<210> 21  
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 <213> Artificial Sequence

<220>  
 <223> sequencing primer

<400> 21  
 agaaacacaa agtctacgcc 20

<210> 22  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
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<400> 22  
 gttgggcagc gagtaataac 20

<210> 23  
 <211> 348  
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 <213> Artificial Sequence

<220>  
 <223> nucleotide sequence encoding VH region of clone 61

<400> 23  
 caggagcagc tgatggagtc cgggggtcgc ctgggtcaatc ctggcgaatc cctgacactc 60  
 acctgcaaag cctctggatt caccttcagt agctactaca tgagctgggt ccgccaggct 120  
 ccaggggaagg ggctggagtg gatcggatac attggtacta gtagtggtac cacttactac 180  
 gcgaactctg tgaagggccg attcaccatc tccagcgaca acgcccagaa taccgtatit 240  
 ctgcgaatga ccagtctcac agactcggac acggccacct atttctgtgc aagagggctg 300  
 ggcagaatca acttgtgggg cccaggcacc ctggtcaccg tctcttca 348

<210> 24  
 <211> 327



<212> DNA  
<213> Artificial Sequence

<220>  
<223> nucleotide sequence encoding VL region of clone 61

<400> 24  
gagctcgtgc tgaccagac tccatcctct atgtctgcag ctgtgggagg cacagtcacc 60  
atcaattgcc aggccagtc gagtggttagc aactacttag cctggatatca gcagaaacca 120  
gggcagcctc ccaagctcct gatctacagg gcatccactc tggcatctgg ggtcccatcg 180  
cgtttcagcg gcagtggatc tgggacagag ttactcttca ccatcagtgg catgaaggct 240  
gaagatgctg ccacttatta ctgtcaaagt ggttattata gtgctgggtgc gacttttgga 300  
ggtggcacca atgtggaaat caaacga 327

<210> 25  
<211> 348  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> nucleotide sequence encoding VH region of clone 68

<400> 25  
cagcagcagc tggtaggagc cgggggtcgc ctggtcaatc ctggcgaatc cctgacactc 60  
acctgcaaag cctctggatt caccttcagt acctactaca tgagctgggt ccgccaggct 120  
ccaggggaagg ggctagagtg gatcggatac attggtacta gtagtggtag cacttactac 180  
gcgaactctg tgaagggccg attcaccatc tccagcgaca acgcccagaa taccgtattt 240  
ctgcaaatga ccagtctgac agactcggac acggccacct atttctgtgc aagagggctg 300  
ggcagaatta acttgtagggg cccaggcacc ctggtcaccg tctcctca 348

<210> 26  
 <211> 327  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> nucleotide sequence encoding VL region of clone 68

<400> 26  
 gagctcgatc tgacccagac tccatcctct gtgtctgcag ctgtgggagg cacagtcacc 60  
 atcaattgcc aggccagtca gagtgttagc aacctcttag cctggatatca gcagaaacca 120  
 gggcagcctc ccaagctcct gatttatggt gcatccaatc tggaatctgg ggtcccatcg 180  
 cgtttccgtg gcagtggatc tgggacagag ttactctca ccatcagtgg catgaaggct 240  
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<210> 27  
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 <212> PRT  
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<400> 27  
 Gln Glu Gln Leu Met Glu Ser Gly Gly Arg Leu Val Asn Pro Gly Glu  
 1 5 10 15  
 Ser Leu Thr Leu Thr Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30  
 Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile

35

40

45

Gly Tyr Ile Gly Thr Ser Ser Gly Thr Thr Tyr Tyr Ala Asn Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Gln Asn Thr Val Phe  
 65 70 75 80

Leu Arg Met Thr Ser Leu Thr Asp Ser Asp Thr Ala Thr Tyr Phe Cys  
 85 90 95

Ala Arg Gly Leu Gly Arg Ile Asn Leu Trp Gly Pro Gly Thr Leu Val  
 100 105 110

Thr Val Ser Ser  
 115

<210> 28

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> amino acid sequence of VL region of clone 61

<400> 28

Glu Leu Val Leu Thr Gln Thr Pro Ser Ser Met Ser Ala Ala Val Gly  
 1 5 10 15

Gly Thr Val Thr Ile Asn Cys Gln Ala Ser Gln Ser Val Ser Asn Tyr  
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile  
 35 40 45

Tyr Arg Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly  
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Gly Met Lys Ala  
 65 70 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Gly Tyr Tyr Ser Ala Gly  
85 90 95

Ala Thr Phe Gly Gly Gly Thr Asn Val Glu Ile Lys Arg  
100 105

<210> 29  
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<220>  
<223> amino acid sequence of VH region of clone 68

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1 5 10 15

Ser Leu Thr Leu Thr Cys Lys Ala Ser Gly Phe Thr Phe Ser Thr Tyr  
20 25 30

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile  
35 40 45

Gly Tyr Ile Gly Thr Ser Ser Gly Thr Thr Tyr Tyr Ala Asn Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Gln Asn Thr Val Phe  
65 70 75 80

Leu Gln Met Thr Ser Leu Thr Asp Ser Asp Thr Ala Thr Tyr Phe Cys  
85 90 95

Ala Arg Gly Leu Gly Arg Ile Asn Leu Trp Gly Pro Gly Thr Leu Val  
100 105 110

Thr Val Ser Ser  
115

<210> 30  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> amino acid sequence of VL region of clone 68

<400> 30  
 Glu Leu Asp Leu Thr Gln Thr Pro Ser Ser Val Ser Ala Ala Val Gly  
 1 5 10 15  
 Gly Thr Val Thr Ile Asn Cys Gln Ala Ser Gln Ser Val Ser Asn Leu  
 20 25 30  
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile  
 35 40 45  
 Tyr Gly Ala Ser Asn Leu Glu Ser Gly Val Pro Ser Arg Phe Arg Gly  
 50 55 60  
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Gly Met Lys Ala  
 65 70 75 80  
 Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Gly Tyr Tyr Ser Ala Gly  
 85 90 95  
 Ala Thr Phe Gly Ala Gly Thr Asn Val Glu Ile Lys Arg  
 100 105

<210> 31  
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<220>  
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ccctcatagt tagcgtaacg

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<400> 32  
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1 5 10

<210> 33  
<211> 12  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> neutralizable epitope of HGF

<400> 33  
Lys Ser Leu Ser Arg His Asp His Ile His His His  
1 5 10

<210> 34  
<211> 36  
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<400> 34

catcatccgc attttaagcc tgtgtctaag agtcgt

36

<210> 35

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleotide sequence encoding SEQ. ID. No. 33

<400> 35

aagtctctta gtcggcatga tcatattcat catcat

36